

of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:56:27 ON 17 APR 2006

=> FIL REGISTRY

COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.21 | 0.21 |

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 16:56:45 ON 17 APR 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 APR 2006 HIGHEST RN 880543-27-1

DICTIONARY FILE UPDATES: 16 APR 2006 HIGHEST RN 880543-27-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> E "BUTYLATED HYDROXYANISOLE"/CN 25
E1 1 BUTYLATE-SIMAZINE MIXT./CN
E2 1 BUTYLATED HYDROXYANISOL-BUTYLATED HYDROXYTOLUENE-GALLIC ACID-CITRIC ACID MIXT./CN
E3 1 --> BUTYLATED HYDROXYANISOLE/CN
E4 1 BUTYLATED HYDROXYANISOLE-BUTYLATED HYDROXYTOLUENE MIXT./CN
E5 1 BUTYLATED HYDROXYANISOLE-PROPYL GALLATE-CITRIC ACID MIXT./CN
E6 1 BUTYLATED HYDROXYTOLUENE/CN
E7 1 BUTYLATED HYDROXYTOLUENE O-METHYL ETHER/CN
E8 1 BUTYLATED HYDROXYTOLUENE OXIDASE/CN
E9 1 BUTYLATED SILICA GEL/CN
E10 1 BUTYLATROPINE BROMIDE/CN
E11 1 BUTYLBARIUM IODIDE/CN
E12 1 BUTYLBENZAMIDE/CN
E13 1 BUTYLBENZENE/CN
E14 1 BUTYLBENZENE ADIPATE/CN

BEST AVAILABLE COPY

E15 1 BUTYLBENZENE CATION/CN
 E16 1 BUTYLBENZENE CATION RADICAL/CN
 E17 1 BUTYLBENZENE CATION (2+)/CN
 E18 1 BUTYLBENZENE HOMOPOLYMER/CN
 E19 1 BUTYLBENZENE RADICAL CATION/CN
 E20 1 BUTYLBENZENE-ETHYLBENZENE-TOLUENE MIXTURE/CN
 E21 1 BUTYLBENZENE-IODINE (1:1)/CN
 E22 1 BUTYLBENZENESULFONIC ACID/CN
 E23 1 BUTYLBENZO-15-CROWN-5/CN
 E24 1 BUTYLBENZOIC ACID/CN
 E25 1 BUTYLBENZOIC ACID TRIETHANOLAMINE SALT/CN

=> S E3

L1 1 "BUTYLATED HYDROXYANISOLE"/CN

=> E "BUTYLATED HYDROXYANISOLE"/CN 25

E1 1 BUTYLATE-SIMAZINE MIXT./CN
 E2 1 BUTYLATED HYDROXYANISOL-BUTYLATED HYDROXYTOLUENE-GALLIC
 ACID-CITRIC ACID MIXT./CN
 E3 1 --> BUTYLATED HYDROXYANISOLE/CN
 E4 1 BUTYLATED HYDROXYANISOLE-BUTYLATED HYDROXYTOLUENE MIXT./CN
 E5 1 BUTYLATED HYDROXYANISOLE-PROPYL GALLATE-CITRIC ACID MIXT./CN
 E6 1 BUTYLATED HYDROXYTOLUENE/CN
 E7 1 BUTYLATED HYDROXYTOLUENE O-METHYL ETHER/CN
 E8 1 BUTYLATED HYDROXYTOLUENE OXIDASE/CN
 E9 1 BUTYLATED SILICA GEL/CN
 E10 1 BUTYLATROPINE BROMIDE/CN
 E11 1 BUTYLBARIUM IODIDE/CN
 E12 1 BUTYLBENZAMIDE/CN
 E13 1 BUTYLBENZENE/CN
 E14 1 BUTYLBENZENE ADIPATE/CN
 E15 1 BUTYLBENZENE CATION/CN
 E16 1 BUTYLBENZENE CATION RADICAL/CN
 E17 1 BUTYLBENZENE CATION (2+)/CN
 E18 1 BUTYLBENZENE HOMOPOLYMER/CN
 E19 1 BUTYLBENZENE RADICAL CATION/CN
 E20 1 BUTYLBENZENE-ETHYLBENZENE-TOLUENE MIXTURE/CN
 E21 1 BUTYLBENZENE-IODINE (1:1)/CN
 E22 1 BUTYLBENZENESULFONIC ACID/CN
 E23 1 BUTYLBENZO-15-CROWN-5/CN
 E24 1 BUTYLBENZOIC ACID/CN
 E25 1 BUTYLBENZOIC ACID TRIETHANOLAMINE SALT/CN

=> S E4

L2 1 "BUTYLATED HYDROXYANISOLE-BUTYLATED HYDROXYTOLUENE MIXT."/CN

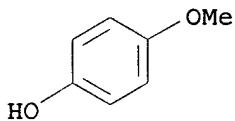
=> DIS L2 1 SQIDE
 THE ESTIMATED COST FOR THIS REQUEST IS 6.36 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 8076-84-4 REGISTRY
 CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-, mixt. with
 (1,1-dimethylethyl)-4-methoxyphenol (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Phenol, (1,1-dimethylethyl)-4-methoxy-, mixt. contg. (9CI)
 OTHER NAMES:
 CN AX 1
 CN AX 1 (pharmaceutical)
 CN BHA-BHT mixt.
 CN Butylated hydroxyanisole-butylated hydroxytoluene mixt.
 CN Embanox 10
 CN Embanox 2
 CN Isoace
 CN Sustane 6

CN Sustane HW 4
CN Tenox
CN Tenox 4
CN Tenox 4A
CN Tenox 5
CN Termox
DR 51394-40-2, 65988-39-8
MF C15 H24 O . C11 H16 O2
CI MXS
LC STN Files: AGRICOLA, BIOSIS, CA, CAPLUS, CIN, IMSCOSEARCH, PIRA, PROMT,
TOXCENTER, USPATFULL
DT.CA CAplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: BIOL (Biological study); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties); USES
(Uses); NORL (No role in record)

CM 1

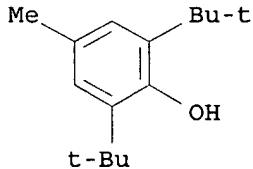
CRN 25013-16-5
CMF C11 H16 O2
CCI IDS



D1-Bu-t

CM 2

CRN 128-37-0
CMF C15 H24 O



30 REFERENCES IN FILE CA (1907 TO DATE)
30 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> E "BUTYLATED HYDROXYANISOLE"/CN 25
E1 1 BUTYLATE-SIMAZINE MIXT./CN
E2 1 BUTYLATED HYDROXYANISOL-BUTYLATED HYDROXYTOLUENE-GALLIC
ACID-CITRIC ACID MIXT./CN
E3 1 --> BUTYLATED HYDROXYANISOLE/CN
E4 1 BUTYLATED HYDROXYANISOLE-BUTYLATED HYDROXYTOLUENE MIXT./CN
E5 1 BUTYLATED HYDROXYANISOLE-PROPYL GALLATE-CITRIC ACID MIXT./CN
E6 1 BUTYLATED HYDROXYTOLUENE/CN
E7 1 BUTYLATED HYDROXYTOLUENE O-METHYL ETHER/CN
E8 1 BUTYLATED HYDROXYTOLUENE OXIDASE/CN
E9 1 BUTYLATED SILICA GEL/CN
E10 1 BUTYLATROPINE BROMIDE/CN
E11 1 BUTYLBARIUM IODIDE/CN

E12 1 BUTYLBENZAMIDE/CN
E13 1 BUTYLBENZENE/CN
E14 1 BUTYLBENZENE ADIPATE/CN
E15 1 BUTYLBENZENE CATION/CN
E16 1 BUTYLBENZENE CATION RADICAL/CN
E17 1 BUTYLBENZENE CATION(2+)/CN
E18 1 BUTYLBENZENE HOMOPOLYMER/CN
E19 1 BUTYLBENZENE RADICAL CATION/CN
E20 1 BUTYLBENZENE-ETHYLBENZENE-TOLUENE MIXTURE/CN
E21 1 BUTYLBENZENE-IODINE (1:1)/CN
E22 1 BUTYLBENZENESULFONIC ACID/CN
E23 1 BUTYLBENZO-15-CROWN-5/CN
E24 1 BUTYLBENZOIC ACID/CN
E25 1 BUTYLBENZOIC ACID TRIETHANOLAMINE SALT/CN

=> S E4

L3 1 "BUTYLATED HYDROXYANISOLE-BUTYLATED HYDROXYTOLUENE MIXT."/CN

=> FIL USPATFULL

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 18.38 | 18.59 |

FILE 'USPATFULL' ENTERED AT 16:59:52 ON 17 APR 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 13 Apr 2006 (20060413/PD)

FILE LAST UPDATED: 13 Apr 2006 (20060413/ED)

HIGHEST GRANTED PATENT NUMBER: US7028340

HIGHEST APPLICATION PUBLICATION NUMBER: US2006080750

CA INDEXING IS CURRENT THROUGH 13 Apr 2006 (20060413/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 13 Apr 2006 (20060413/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2006

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2006

=> S L3

L4 1 L3

=> DIS L4 1 IALL

THE ESTIMATED COST FOR THIS REQUEST IS 4.10 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 1 OF 1 USPATFULL on STN

ACCESSION NUMBER: 2004:327907 USPATFULL

TITLE: Treatment of plants and plant propagation materials with an antioxidant to improve plant health and/or yield

INVENTOR(S): Asrar, Jawed, Chesterfield, MO, UNITED STATES
Bourque, June E., St. Louis, MO, UNITED STATES
Ding, Yiwei, Ballwin, MO, UNITED STATES

PATENT ASSIGNEE(S): Sanders, Ernest F., Lake St. Louis, MO, UNITED STATES
Monsanto Technology, L.L.C., St. Louis, MO (U.S. corporation)

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

PATENT INFORMATION: US 2004259732 A1 20041223

APPLICATION INFO.: US 2004-832578 A1 20040427 (10)

| NUMBER | DATE |
|--------|------|
|--------|------|

PRIORITY INFORMATION: US 2003-466104P 20030428 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 16 APR 2006 HIGHEST RN 880543-27-1
DICTIONARY FILE UPDATES: 16 APR 2006 HIGHEST RN 880543-27-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

```
=> E "BUTYLATED HYDROXYANISOLE"/CN 25
E1      1      BUTYLATE-SIMAZINE MIXT./CN
E2      1      BUTYLATED HYDROXYANISOL-BUTYLATED HYDROXYTOLUENE-GALLIC
ACID-CITRIC ACID MIXT./CN
E3      1 --> BUTYLATED HYDROXYANISOLE/CN
E4      1      BUTYLATED HYDROXYANISOLE-BUTYLATED HYDROXYTOLUENE MIXT./CN
E5      1      BUTYLATED HYDROXYANISOLE-PROPYL GALLATE-CITRIC ACID MIXT./CN
E6      1      BUTYLATED HYDROXYTOLUENE/CN
E7      1      BUTYLATED HYDROXYTOLUENE O-METHYL ETHER/CN
E8      1      BUTYLATED HYDROXYTOLUENE OXIDASE/CN
E9      1      BUTYLATED SILICA GEL/CN
E10     1      BUTYLATROPINE BROMIDE/CN
E11     1      BUTYLBARIUM IODIDE/CN
E12     1      BUTYLBENZAMIDE/CN
E13     1      BUTYLBENZENE/CN
E14     1      BUTYLBENZENE ADIPATE/CN
E15     1      BUTYLBENZENE CATION/CN
E16     1      BUTYLBENZENE CATION RADICAL/CN
E17     1      BUTYLBENZENE CATION(2+)/CN
E18     1      BUTYLBENZENE HOMOPOLYMER/CN
E19     1      BUTYLBENZENE RADICAL CATION/CN
E20     1      BUTYLBENZENE-ETHYLBENZENE-TOLUENE MIXTURE/CN
E21     1      BUTYLBENZENE-IODINE (1:1)/CN
E22     1      BUTYLBENZENESULFONIC ACID/CN
E23     1      BUTYLBENZO-15-CROWN-5/CN
E24     1      BUTYLBENZOIC ACID/CN
E25     1      BUTYLBENZOIC ACID TRIETHANOLAMINE SALT/CN

=> s e3
L5      1 "BUTYLATED HYDROXYANISOLE"/CN
```

=> d ibib
'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

| | |
|--------|---------------------------------------------------------|
| REG | - RN |
| SAM | - Index Name, MF, and structure - no RN |
| FIDE | - All substance data, except sequence data |
| IDE | - FIDE, but only 50 names |
| SQIDE | - IDE, plus sequence data |
| SQIDE3 | - Same as SQIDE, but 3-letter amino acid codes are used |
| SQD | - Protein sequence data, includes RN |
| SQD3 | - Same as SQD, but 3-letter amino acid codes are used |
| SQN | - Protein sequence name information, includes RN |
| CALC | - Table of calculated properties |
| EPROP | - Table of experimental properties |
| PROP | - EPROP and CALC |

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

| | |
|-------|--------------------------------------------------------------|
| ABS | -- Abstract |
| APPS | -- Application and Priority Information |
| BIB | -- CA Accession Number, plus Bibliographic Data |
| CAN | -- CA Accession Number |
| CBIB | -- CA Accession Number, plus Bibliographic Data (compressed) |
| IND | -- Index Data |
| IPC | -- International Patent Classification |
| PATS | -- PI, SO |
| STD | -- BIB, IPC, and NCL |
| IABS | -- ABS, indented, with text labels |
| IBIB | -- BIB, indented, with text labels |
| ISTD | -- STD format, indented |
| OBIB | ----- AN, plus Bibliographic Data (original) |
| OIBIB | ----- OBIB, indented with text labels |
| SBIB | ----- BIB, no citations |
| SIBIB | ----- IBIB, no citations |

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

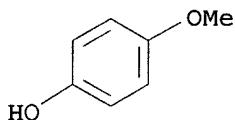
For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):rn

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 25013-16-5 REGISTRY

```
=> d sam
```

```
L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
IN Phenol, (1,1-dimethylethyl)-4-methoxy- (9CI)
MF C11 H16 O2
CI IDS, COM
```



```
D1-Bu-t
```

```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
```

```
=> s e6
L6 1 "BUTYLATED HYDROXYTOLUENE"/CN
```

```
=> d rn sam
'SAM' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
```

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

| | |
|--------|---------------------------------------------------------|
| REG | - RN |
| SAM | - Index Name, MF, and structure - no RN |
| FIDE | - All substance data, except sequence data |
| IDE | - FIDE, but only 50 names |
| SQIDE | - IDE, plus sequence data |
| SQIDE3 | - Same as SQIDE, but 3-letter amino acid codes are used |
| SQD | - Protein sequence data, includes RN |
| SQD3 | - Same as SQD, but 3-letter amino acid codes are used |
| SQN | - Protein sequence name information, includes RN |
| CALC | - Table of calculated properties |
| EPROP | - Table of experimental properties |
| PROP | - EPROP and CALC |

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

| | |
|------|--------------------------------------------------------------|
| ABS | -- Abstract |
| APPS | -- Application and Priority Information |
| BIB | -- CA Accession Number, plus Bibliographic Data |
| CAN | -- CA Accession Number |
| CBIB | -- CA Accession Number, plus Bibliographic Data (compressed) |
| IND | -- Index Data |
| IPC | -- International Patent Classification |
| PATS | -- PI, SO |
| STD | -- BIB, IPC, and NCL |
| IABS | -- ABS, indented, with text labels |
| IBIB | -- BIB, indented, with text labels |

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

HELP FORMATS -- To see detailed descriptions of the predefined formats.

ENTER DISPLAY FORMAT (IDE):rn

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 128-37-0 REGISTRY

=> d sam

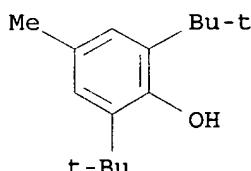
L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

IN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI)

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT

MF C15 H24 O

CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> d ide

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 128-37-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2,6-Bis(1,1-dimethylethyl)-4-methylphenol

CN 2,6-Bis(tert-butyl)-4-methylphenol

CN 2,6-Di(tert-butyl)hydroxytoluene

CN 2,6-Di-tert-butyl-4-cresol

CN 2,6-Di-tert-butyl-4-hydroxytoluene

CN 2,6-Di-tert-butyl-4-methyl-1-hydroxybenzene

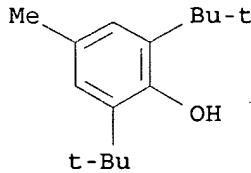
CN 2,6-Di-tert-butyl-4-methylhydroxybenzene

CN 2,6-Di-tert-butyl-4-methylphenol

CN 2,6-Di-tert-butyl-p-cresol

CN 2,6-Di-tert-butyl-p-cresol
CN 2,6-Di-tert-butyl-p-cresole
CN 2,6-Di-tert-butyl-p-methylphenol
CN 2,6-Di-tert-butylcresol
CN 2,6-Di-tert-butylmethylphenol
CN 2,6-tert-Butyl-4-methylphenol
CN 3,5-Di-tert-butyl-4-hydroxytoluene
CN 4-Hydroxy-3,5-di-tert-butyltoluene
CN 4-Methyl-2,6-bis(1,1-dimethylethyl)phenol
CN 4-Methyl-2,6-di-tert-butylphenol
CN Advastab 401
CN Agidol
CN Agidol 1
CN Agidol 1A
CN Alkofen BP
CN Antage BHT
CN Antioxidant 264
CN Antioxidant 29
CN Antioxidant 30
CN Antioxidant 4
CN Antioxidant 4K
CN Antioxidant DBPC
CN Antioxidant KB
CN Antioxidant MPJ
CN Antioxidant T 501
CN Antox QT
CN AO 29
CN AO 4
CN AO 4K
CN AOX 4
CN AOX 4K
CN BAT
CN BHT
CN BHT 264
CN BHT Swanox
CN BHT-C
CN Buks
CN **Butylated hydroxytoluene**

CN CAO 1
CN CAO 3
CN Catalin CAO 3
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY
FS 3D CONCORD
DR 53571-70-3, 58500-82-6, 97123-41-6, 102962-45-8, 50641-99-1, 36631-28-4,
83047-16-9, 42615-30-5, 50356-19-9, 52683-46-2, 290348-23-1
MF C15 H24 O
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,
BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU,
EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*,
IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT,
NIOSHTIC, PDLCOM*, PHAR, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE,
TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

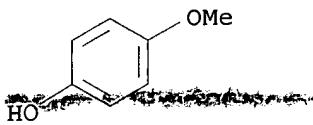


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14354 REFERENCES IN FILE CA (1907 TO DATE)
 128 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 14365 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 25013-16-5 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Phenol, (1,1-dimethylethyl)-4-methoxy- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Phenol, tert-butyl-4-methoxy- (7CI, 8CI)
 OTHER NAMES:
 CN 2(3)-tert-Butyl-4-hydroxyanisole
 CN Antioxyne B
 CN BHA
 CN BHA (antioxidant)
 CN BOA
 CN BOA (antioxidant)
 CN **Butylated hydroxyanisole**
 CN Butylhydroxyanisole
 CN E 320
 CN Embanox
 CN Protex
 CN Sustane 1F
 CN Tenoxy BHA
 CN tert-Butyl-4-hydroxyanisole
 CN tert-Butyl-4-methoxyphenol
 CN tert-Butyl-p-hydroxyanisole
 CN tert-Butylhydroxyanisole
 DR 8003-24-5, 8041-81-4, 9009-68-1, 1336-31-8, 56587-66-7, 57534-28-8,
 37349-77-2
 MF C11 H16 O2
 CI IDS, COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA,
 CABAB, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,
 CSNB, DDFU, DIOGENES, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*,
 SCISEARCH, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



D1-Bu-t

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3978 REFERENCES IN FILE CA (1907 TO DATE)
 44 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3984 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> index formulations

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 21.34 | 48.34 |

INDEX 'ADISINSIGHT, BIOSIS, CABA, CAPLUS, CROPU, DDFU, DRUGU, EMBASE, IMSPATENTS, IPA, MEDLINE, PASCAL, PHAR, PHIN, PROMT, SCISEARCH, TOXCENTER, WPIDS, WPINDEX' ENTERED AT 17:08:57 ON 17 APR 2006

19 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s 16 and 15

| | |
|-----|----------------|
| 429 | FILE BIOSIS |
| 0* | FILE CABA |
| 0* | FILE CAPLUS |
| 0* | FILE CROPU |
| 0* | FILE DDFU |
| 0* | FILE DRUGU |
| 15 | FILE IPA |
| 254 | FILE MEDLINE |
| 0* | FILE PASCAL |
| 0* | FILE PHIN |
| 19 | FILE PROMT |
| 0* | FILE SCISEARCH |
| 613 | FILE TOXCENTER |

5 FILES HAVE ONE OR MORE ANSWERS, 19 FILES SEARCHED IN STNINDEX

L7 QUE L6 AND L5

=> index chemistry

FILE 'ENCOMPLIT2' ACCESS NOT AUTHORIZED

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 3.66 | 52.00 |

INDEX 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUALINE, AQUIRE, BABS, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTTEXT, IPA, JICST-EPLUS, ...' ENTERED AT 17:12:19 ON 17 APR 2006

45 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s 16 and 15

```
156 FILE AGRICOLA
0* FILE ALUMINIUM
0* FILE APOLLIT
0* FILE AQUALINE
0* FILE BABS
0* FILE CABA
0* FILE CAOLD
0* FILE CAPLUS
3 FILE CBNB
0* FILE CEABA-VTB
0* FILE CERAB
3 FILE CIN
0* FILE COMPENDEX
0* FILE CONFSCI
0* FILE COPPERLIT
0* FILE CORROSION
0* FILE DISSABS
0* FILE ENCOMPLIT
0* FILE FEDRIP
0* FILE GENBANK
0* FILE INSPEC
0* FILE INSPHYS
0* FILE INVESTEXT
15 FILE IPA
0* FILE KOSMET
0* FILE METADEX
0* FILE NTIS
0* FILE PASCAL
19 FILE PROMT
0* FILE RDISCLOSURE
0* FILE SCISEARCH
0* FILE WATER
0* FILE WELDASEARCH
```

5 FILES HAVE ONE OR MORE ANSWERS, 45 FILES SEARCHED IN STNINDEX

L8 QUE L6 AND L5

=> index medicine
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS

| | SINCE ENTRY | TOTAL SESSION |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|
| FULL ESTIMATED COST | 0.61 | 52.61 |
| INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CAPLUS, DDFB, DDFU,
DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ESBIODEBASE,
IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS, KOSMET, LIFESCI,
MEDLINE, NAPRALERT, NLDB, NUTRACEUT, ...' ENTERED AT 17:12:46 ON 17 APR 2006 | | |

36 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s 16 and 15

```
0* FILE ADISCTI
429 FILE BIOSIS
0* FILE CAPLUS
0* FILE DDFB
0* FILE DDFU
```

```

0* FILE DGENE
0* FILE DISSABS
0* FILE DRUGB
0* FILE DRUGU
0* FILE EMBAL
0* FILE ESBIOBASE
0* FILE IFIPAT
2 FILE IMSPRODUCT
15 FILE IPA
0* FILE KOSMET
0* FILE LIFESCI
254 FILE MEDLINE
0* FILE NUTRACEUT
0* FILE PASCAL
0* FILE PCTGEN
0* FILE PHARMAML
0* FILE PHIC
0* FILE PHIN
0* FILE SCISEARCH
613 FILE TOXCENTER
0* FILE USPATFULL
0* FILE USPAT2

```

5 FILES HAVE ONE OR MORE ANSWERS, 36 FILES SEARCHED IN STNINDEX

L9 QUE L6 AND L5

=> index meetings
COST IN U.S. DOLLARS

| | SINCE FILE | TOTAL |
|---------------------|------------|---------|
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.61 | 53.22 |

INDEX '1MOBILITY, AGRICOLA, AQUASCI, BIOTECHNO, COMPENDEX, COMPUAB, CONF,
CONFSCI, ELCOM, HEALSAFE, IMSDRUGCONF, LIFESCI, OCEAN, PAPERCHEM2,
PASCAL, POLLUAB, SOLIDSTATE' ENTERED AT 17:13:07 ON 17 APR 2006

17 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s 16 and 15


```

0* FILE 1MOBILITY
156 FILE AGRICOLA
0* FILE AQUASCI
0* FILE COMPENDEX
0* FILE COMPUAB
0* FILE CONF
0* FILE CONFSCI
0* FILE ELCOM
0* FILE HEALSAFE
0* FILE IMSDRUGCONF
0* FILE LIFESCI
0* FILE OCEAN
0* FILE PASCAL
0* FILE POLLUAB
0* FILE SOLIDSTATE

```

1 FILES HAVE ONE OR MORE ANSWERS, 17 FILES SEARCHED IN STNINDEX

L10 QUE L6 AND L5

=> index patents
FILE 'ENCOMPPAT2' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|-------|
|------------|-------|

| FULL ESTIMATED COST | ENTRY | SESSION |
|---------------------|-------|---------|
| | 0.61 | 53.83 |

INDEX 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT, EPFULL,
~~FRANCEPAT, FRFULL, FSTA, GBFULL, IFIPAT, IMSPATENTS, INPADOC, JAPIO,~~
KOREAPAT, LITALERT, NTIS, PAPERCHEM2, PATDD, PATDPA, PATDPAFULL,
PATDPASPC, PCTFULL, PCTGEN, PIRA, PROUSDDR, PS, ...'
ENTERED AT 17:13:26 ON 17 APR 2006

40 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s 16 and 15

0* FILE CAOLD
0* FILE CAPLUS
0* FILE CROPU
0* FILE DGENE
0* FILE DPCI
0* FILE ENCOMPPAT
0* FILE EPFULL
0* FILE FRANCEPAT
0* FILE FRFULL
0* FILE GBFULL
0* FILE IFIPAT
0* FILE INPADOC
0* FILE JAPIO
0* FILE KOREAPAT
0* FILE LITALERT
0* FILE NTIS
0* FILE PATDD
0* FILE PATDPA
0* FILE PATDPAFULL
0* FILE PCTFULL
0* FILE PCTGEN
2 FILE PIRA
0* FILE RDISCLOSURE
0* FILE RUSSIAPAT

32 FILES SEARCHED...

0* FILE USPATFULL
0* FILE USPAT2
0* FILE WPIFV

1 FILES HAVE ONE OR MORE ANSWERS, 40 FILES SEARCHED IN STNINDEX

L11 QUE L6 AND L5

=> file biosis
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE ENTRY | TOTAL SESSION |
|-------------|---------------|
| 3.66 | 57.49 |

FILE 'BIOSIS' ENTERED AT 17:17:02 ON 17 APR 2006
Copyright (c) 2006 The Thomson Corporation

FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 12 April 2006 (20060412/ED)

=> s 16 and 15
2345 L6

1511 L5
L12 544 L6 AND L5

=> s 112 y, A

MISSING OPERATOR L12 Y,A

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> file registry
COST IN U.S. DOLLARS

| | |
|---------------------|------------------|
| SINCE FILE
ENTRY | TOTAL
SESSION |
| 4.39 | 61.88 |

FILE 'REGISTRY' ENTERED AT 17:20:04 ON 17 APR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 APR 2006 HIGHEST RN 880543-27-1
DICTIONARY FILE UPDATES: 16 APR 2006 HIGHEST RN 880543-27-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****
* The CA roles and document type information have been removed from
* the IDE default display format and the ED field has been added,
* effective March 20, 2005. A new display format, IDERL, is now
* available and contains the CA role and document type information.
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

```
=> e CCI-779
E1          2      CCHULITE/BI
E2          29     CCI/BI
E3          0      --> CCI-779/BI
E4          1      CCI01/BI
E5          1      CCI02/BI
E6          1      CCI05/BI
E7          1      CCI08/BI
E8          1      CCI09/BI
E9          57     CCI11/BI
E10         3      CCI11P15/BI
E11         1      CCI12/BI
E12         1      CCI13/BI
```

=> e CC1=779

```
E1      1    CC099999/BI
E2      3874   CC1/BI
E3      0 ---> CC1-779/BI
E4      5    CC1.3/BI
E5      4    CC1.4/BI
E6      2    CC1.85.10/BI
E7      2    CC1.85.11/BI
E8      1    CC1.85.13/BI
E9      2    CC1.85.16/BI
E10     2    CC1.85.6/BI
E11     2    CC1.85.7/BI
E12     2    CC1.85.8/BI
```

```
=> e CCI779
```

```
E1      1    CCI73/BI
E2      1    CCI74/BI
E3      0 ---> CCI779/BI
E4      1    CCI78/BI
E5      1    CCI80/BI
E6      1    CCI9/BI
E7      3    CCIA/BI
E8      1    CCIB/BI
E9      1    CCIC/BI
E10     13   CCII/BI
E11     9    CCIII/BI
E12     1    CCIM/BI
```

```
=> CC1779
```

```
CC1779 IS NOT A RECOGNIZED COMMAND
```

```
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>).
```

```
=> e CC1779
```

```
E1      1    CC177898/BI
E2      1    CC177899/BI
E3      2 ---> CC1779/BI
E4      1    CC177900/BI
E5      1    CC177901/BI
E6      1    CC177902/BI
E7      1    CC177903/BI
E8      1    CC177904/BI
E9      1    CC177905/BI
E10     1    CC177906/BI
E11     1    CC177907/BI
E12     1    CC177908/BI
```

```
=> s e3
```

```
L13      2 CC1779/BI
```

```
=> d sam 1
```

```
L13  ANSWER 1 OF 2  REGISTRY  COPYRIGHT 2006 ACS on STN
IN  ThiJ/PfpI family protein (Caulobacter crescentus gene CC1779)
     (9CI)
SQL  418
MF   Unspecified
CI   MAN
```

```
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
```

```
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
```

```
=> d sam 2
```

L13 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2006 ACS on STN
IN DNA (*Cryptomeria japonica* clone CC1779 EST (expressed sequence tag))
(9CI)
SQL 480
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

=> e 3-hydroxy-2-(hydroxymethyl)2-methylpropionic acid
E1 1 3-FORMYL-2,2-DIMETHYL-4-THIAZOLIDINECARBOXYLATE/BI
E2 1 3-HYDROXY-1-METHYLPIPERIDINIUM P-TOLUENESULFONATE/BI
E3 0 --> 3-HYDROXY-2-(HYDROXYMETHYL)2-METHYLPROPIONIC ACID/BI
E4 2 3-HYDROXYALKANOATE/BI
E5 1 3-METHYL-1,2-BENZENEDIOLATO-KO,KO'/BI
E6 1 3-METHYL-2-PYRIDYL/BI
E7 1 3-METHYL-5-OXO-3-CYCLOHEXENE-1-CARBOXYLATE/BI
E8 1 3-METHYLCYCLOHEXYL/BI
E9 1 3-NORTROPANOL/BI
E10 1 3-OXOCYCLOPENTANEACETATE/BI
E11 1 3-PYRIDYL/BI
E12 1 3-SERINE,30-ARGININE,53-LEUCINE,98-VALINE,101-ARGININE,210-T
HREONINE/BI

=> e rapamycin
E1 1 RAPAMMUNE/BI
E2 1 RAPAMUNE/BI
E3 1269 --> RAPAMYCIN/BI
E4 2 RAPAMYCINATO/BI
E5 3 RAPANA/BI
E6 1 RAPANAN/BI
E7 2 RAPANON/BI
E8 2 RAPANONE/BI
E9 1 RAPANT/BI
E10 1 RAPARIN/BI
E11 6 RAPATE/BI
E12 6 RAPATEA/BI

=> e rapamycin 42-ester
E1 1 RAPAMUNE/BI
E2 1269 RAPAMYCIN/BI
E3 0 --> RAPAMYCIN 42-ESTER/BI
E4 2 RAPAMYCINATO/BI
E5 3 RAPANA/BI
E6 1 RAPANAN/BI
E7 2 RAPANON/BI
E8 2 RAPANONE/BI
E9 1 RAPANT/BI
E10 1 RAPARIN/BI
E11 6 RAPATE/BI
E12 6 RAPATEA/BI

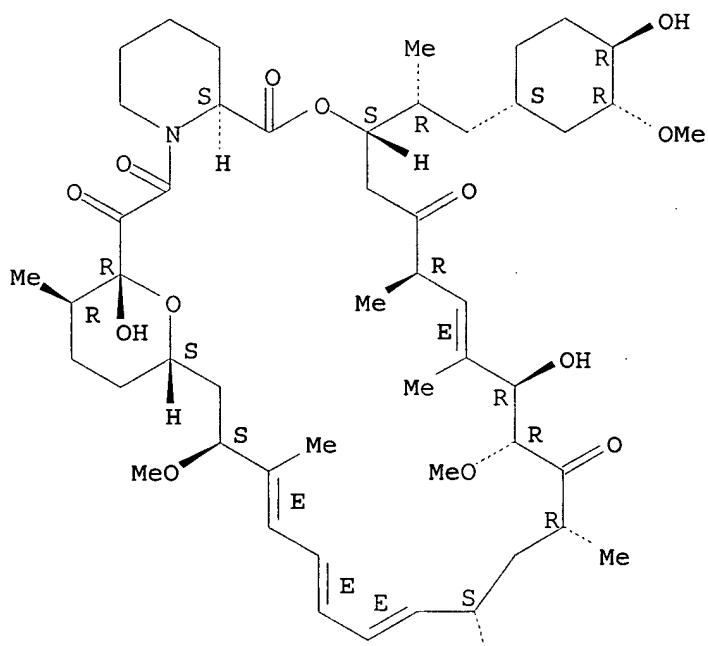
=> s e2
L14 1269 RAPAMYCIN/BI

=> d sam 1-10

L14 ANSWER 1 OF 1269 REGISTRY COPYRIGHT 2006 ACS on STN
IN Rapamycin, compd. with 2-methoxy-2-methylpropane (9CI)
MF C51 H79 N O13 . x C5 H12 O

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



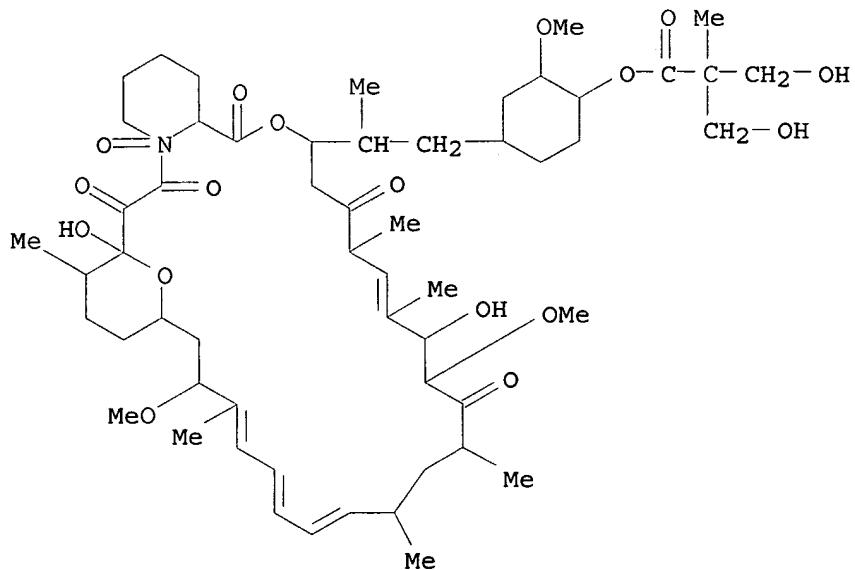
PAGE 2-A

Me

CM 2

t-Bu—O—Me

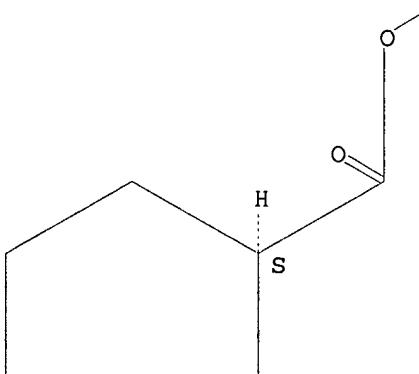
L14 ANSWER 2 OF 1269 REGISTRY COPYRIGHT 2006 ACS on STN
IN Rapamycin, 42-[3-hydroxy-2-(hydroxymethyl)-2-methylpropanoate],
17-oxide (9CI)
MF C56 H87 N O17



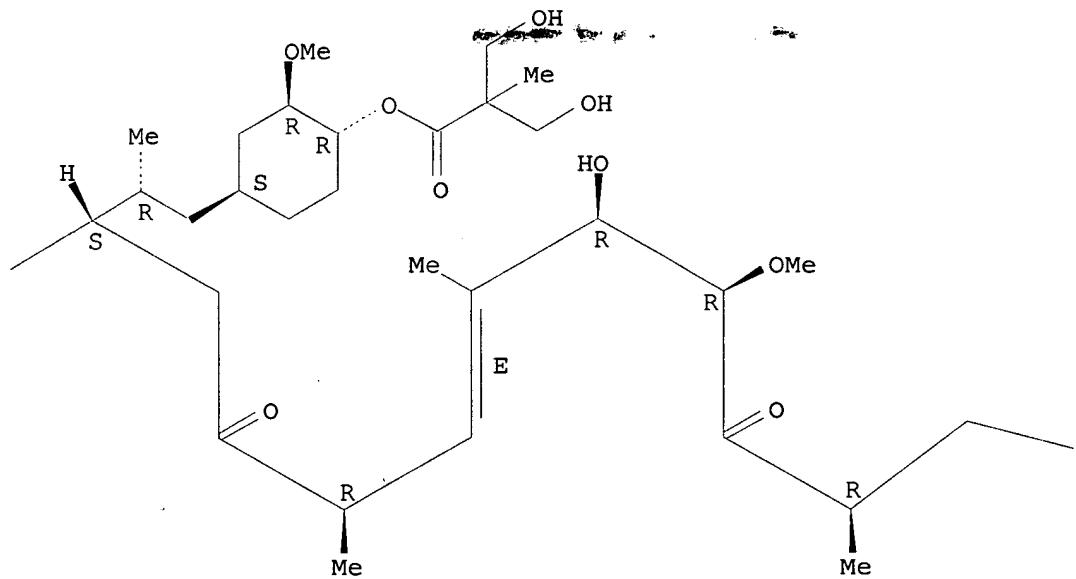
L14 ANSWER 3 OF 1269 REGISTRY COPYRIGHT 2006 ACS on STN
 IN Rapamycin, 9,14-depoxy-14-deoxy-9-hydroxy-14-oxo-,
 42-[3-hydroxy-2-(hydroxymethyl)-2-methylpropanoate] (9CI)
 MF C56 H87 N O17

Absolute stereochemistry.
 Double bond geometry as described by E or Z.

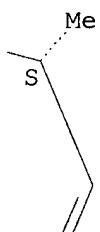
PAGE 1-A



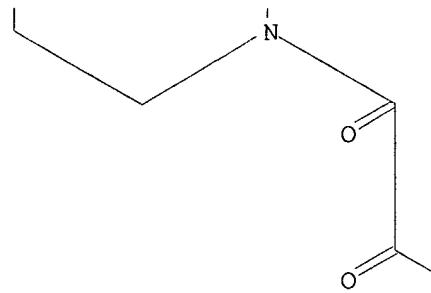
PAGE 1-B



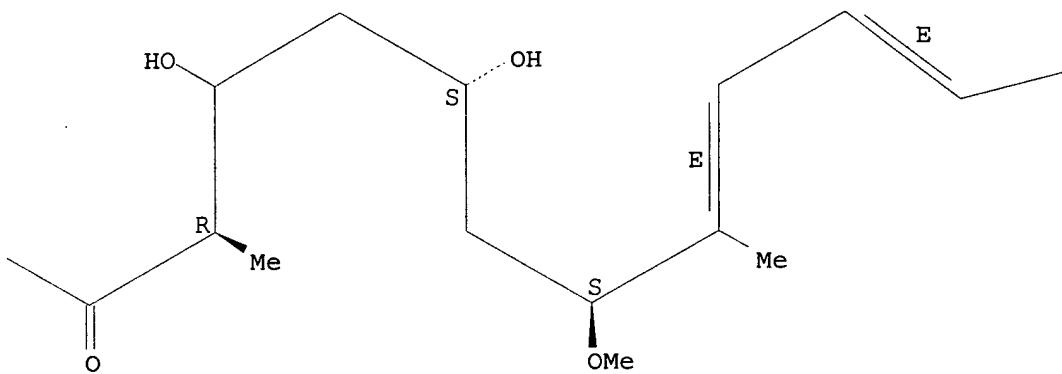
PAGE 1-C



PAGE 2-A



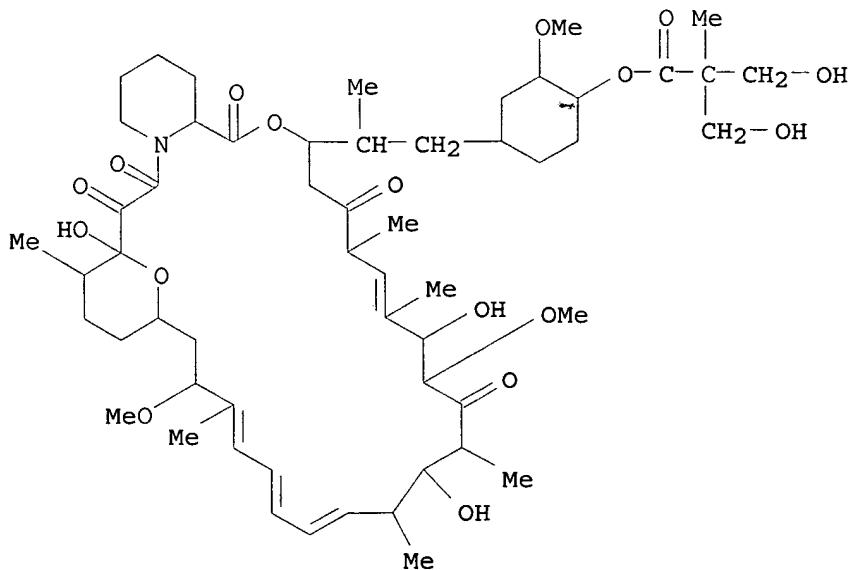
PAGE 2-B



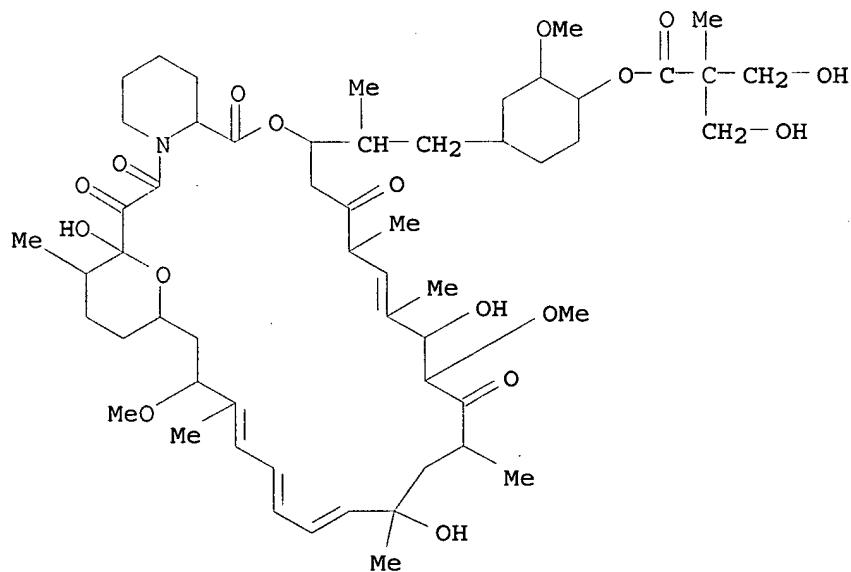
PAGE 2-C



L14 ANSWER 4 OF 1269 REGISTRY COPYRIGHT 2006 ACS on STN
IN Rapamycin, 35-hydroxy-, 42-[3-hydroxy-2-(hydroxymethyl)-2-
methylpropanoate] (9CI)
MF C56 H87 N O17



L14 ANSWER 5 OF 1269 REGISTRY COPYRIGHT 2006 ACS on STN
 IN Rapamycin, 36-hydroxy-, 42-[3-hydroxy-2-(hydroxymethyl)-2-methylpropanoate] (9CI)
 MF C56 H87 N O17

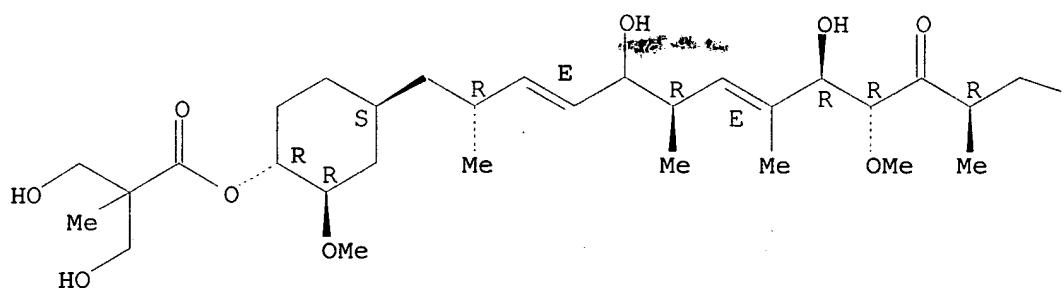


L14 ANSWER 6 OF 1269 REGISTRY COPYRIGHT 2006 ACS on STN
 IN 2-Piperidinecarboxylic acid, 1-[2-[(2R,3R,6S)-6-[(2S,3E,5E,7E,9S,11R,13R,14R,15E,17R,19E,21R)-14,18-dihydroxy-21-[(1S,3R,4R)-4-[3-hydroxy-2-(hydroxymethyl)-2-methyl-1-oxopropoxy]-3-methoxycyclohexyl]methyl]-2,13-dimethoxy-3,9,11,15,17-pentamethyl-12-oxo-3,5,7,15,19-docosapentaen-1-yl]tetrahydro-2-hydroxy-3-methyl-2H-pyran-2-yl]-2-oxoacetyl]-, (2S)- (9CI)
 MF C56 H89 N O16

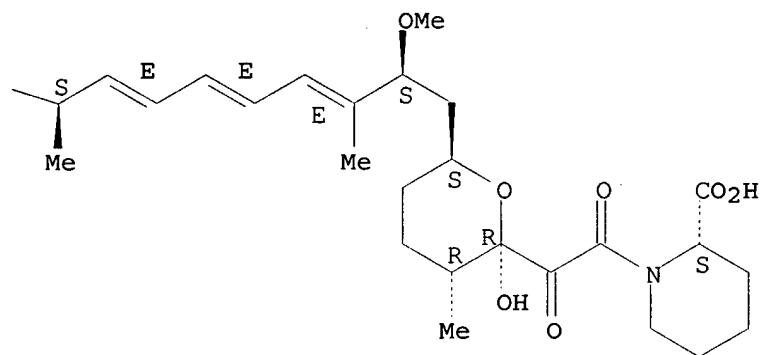
Absolute stereochemistry.

Double bond geometry as shown.

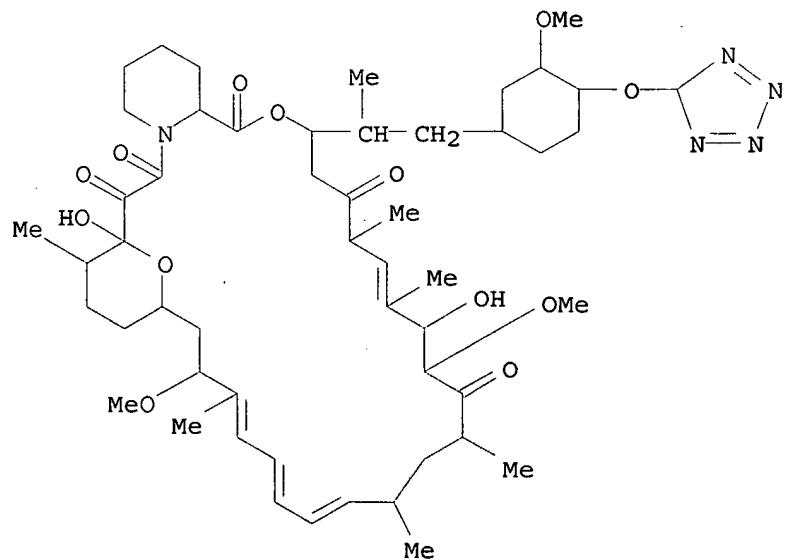
PAGE 1-A



PAGE 1-B

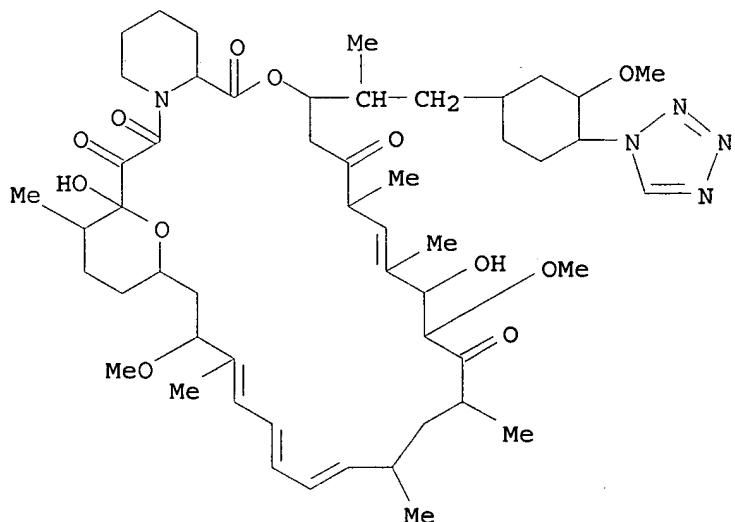


L14 ANSWER 7 OF 1269 REGISTRY COPYRIGHT 2006 ACS on STN
IN Rapamycin, 42-O-5H-tetrazol-5-yl- (9CI)
MF C52 H79 N5 O13



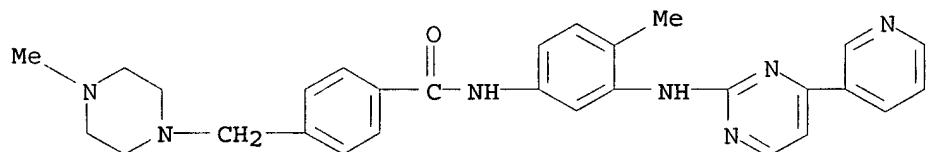
IN Rapamycin, 42-deoxy-42-(1H-tetrazol-1-yl)-, (42S)-, mixt. with
 4-[(4-methyl-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-
 pyrimidinyl]amino]phenyl]benzamide monomethanesulfonate (9CI)
 MF C52 H79 N5 O12 . C29 H31 N7 O . C H4 O3 S
 CI MXS

CM 1

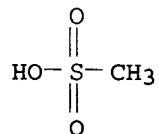


CM 2

CM 3



CM 4



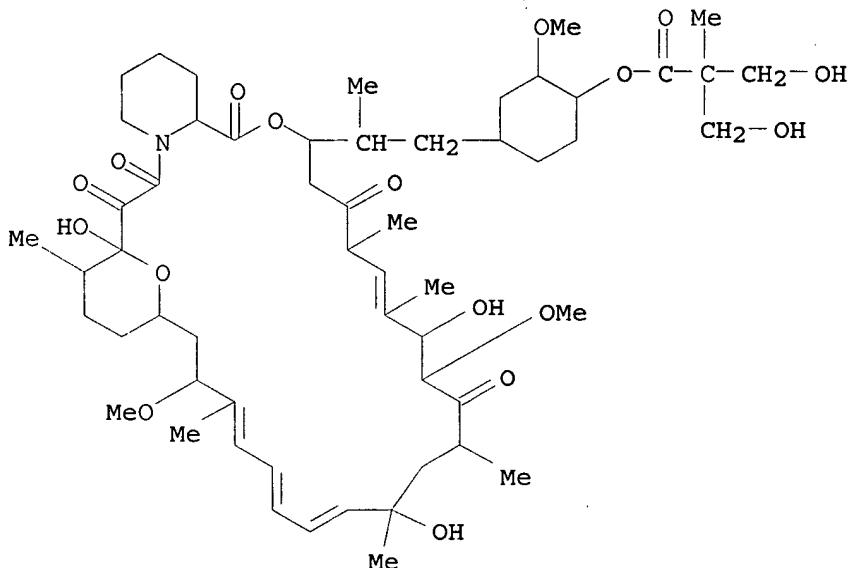
L14 ANSWER 16 OF 1269 REGISTRY COPYRIGHT 2006 ACS on STN
 IN Rapamycin, 42-[3-hydroxy-2-(hydroxymethyl)-2-methylpropanoate], mixt.
 with 4-[(4-methyl-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-
 pyrimidinyl]amino]phenyl]benzamide monomethanesulfonate (9CI)
 MF C56 H87 N O16 . C29 H31 N7 O . C H4 O3 S
 CI MXS

CM 1

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d ide 5

L14 ANSWER 5 OF 1269 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 876060-65-0 REGISTRY
 ED Entered STN: 07 Mar 2006
 CN Rapamycin, 36-hydroxy-, 42-[3-hydroxy-2-(hydroxymethyl)-2-methylpropanoate] (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C56 H87 N O17
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file biosis
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 42.36 | 104.24 |

FILE 'BIOSIS' ENTERED AT 17:31:45 ON 17 APR 2006
 Copyright (c) 2006 The Thomson Corporation

FILE COVERS 1969 TO DATE.
 CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT
 FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 12 April 2006 (20060412/ED)

=> s 112 and 114
 5191 L14
 L15 0 L12 AND L14
 => s 112 and 876060-65-0/RN

'RN' IS NOT A VALID FIELD CODE
0 876060-65-0/RN
L16 0 L12 AND 876060-65-0/RN

=> s l12
2345 L6
1511 L5
L17 544 L6 AND L5

=> s l17 and pd<2002
12783472 PD<2002
(PD<20020000)
L18 446 L17 AND PD<2002

=> l17 and pd<20020917
L17 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>=).

=> l17 and pd<=20020917
L17 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>=).

=> l17 and pd<200209
L17 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>=).

=> d ti 1-10

L18 ANSWER 1 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI In vitro antioxidant properties of dantrolene sodium.

L18 ANSWER 2 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Evaluation of the antioxidant properties of Mediterranean and tropical
fruits compared with common food additives.

L18 ANSWER 3 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Effects of natural and synthetic antioxidants on the oxidative stability
of borage and evening primrose triacylglycerols.

L18 ANSWER 4 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Cyclooxygenase inhibitory and antioxidant cyanidin glycosides in cherries
and berries.

L18 ANSWER 5 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Control of the anthracnose pathogen of banana (*Colletotrichum musae*) using
antioxidants alone and in combination with thiabendazole or imazalil.

L18 ANSWER 6 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Sulfation of flavonoids and other phenolic dietary compounds by the human
cytosolic sulfotransferases.

L18 ANSWER 7 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

TI Gas chromatographic determination of synthetic antioxidants in edible fats and oils: A simple methylation method.

L18 ANSWER 8 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Effects of the butylated hydroxyanisole and butylated hydroxytoluene on the DNA adduct formation and arylamines N-acetyltransferase activity in human colon tumor cells.

L18 ANSWER 9 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Estimates of the theoretical maximum daily intake of phenolic antioxidants BHA, BHT and TBHQ in Brazil.

L18 ANSWER 10 OF 446 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Using antioxidants to increase shelf life of food products.

=> s 118 and drugs

361554 DRUGS

L19 19 L18 AND DRUGS

=> d ti 1-19

L19 ANSWER 1 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Regulation of aflatoxin B-1-metabolizing aldehyde reductase and glutathione S-transferase by chemoprotectors.

L19 ANSWER 2 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI ANTIOXIDANT PROPERTIES OF THE FLAVONOIDS SILYBIN AND DEXTRO 3 CYANIDANOL COMPARISON WITH BUTYLATED HYDROXYANISOLE AND BUTYLATED HYDROXYTOLUENE.

L19 ANSWER 3 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI DRUGS FOOD ADDITIVES AND NATURAL PRODUCTS AS PROMOTERS IN RAT URINARY BLADDER CARCINOGENESIS.

L19 ANSWER 4 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI SUPPRESSION OF TUMOR PROMOTER PHORBOL MYRISTATE ACETATE INDUCED CHROMOSOME BREAKAGE BY ANTI OXIDANTS AND INHIBITORS OF ARACHIDONIC-ACID METABOLISM.

L19 ANSWER 5 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI PROSTAGLANDIN SYNTHETASE DEPENDENT BENZO A PYRENE OXIDATION PRODUCTS OF THE OXIDATION AND INHIBITION OF THEIR FORMATION BY ANTI OXIDANTS.

L19 ANSWER 6 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI INHIBITORS OF CHEMICAL CARCINOGENESIS.

L19 ANSWER 7 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI INHIBITION OF CHEMICAL CARCINOGENESIS BY ANTI OXIDANTS AND SOME ADDITIONAL COMPOUNDS.

L19 ANSWER 8 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI SURGICAL AND MEDICAL MEASURES IN PREVENTION OF LARGE BOWEL CANCER.

L19 ANSWER 9 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI PHENOLIC ANTI OXIDANTS AND THE INHIBITION OF DI METHYLAMINE NITRITE INDUCED HEPATO TOXICITY IN THE RAT.

L19 ANSWER 10 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI ANTI OXIDANTS AS AGENTS POTENTIATING THE ANTI INFLAMMATORY ACTION OF INDOMETHACIN.

L19 ANSWER 11 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on

STN
TI THE EFFECTS OF ANTI OXIDANTS ON SKIN TUMOR INITIATION AND ARYL HYDRO CARBON HYDROXYLASE.

L19 ANSWER 12 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI IBUPROFEN MOTRIN HYPER SENSITIVITY IN INTRINSIC AND EXTRINSIC ALLERGIC PATIENTS.

L19 ANSWER 13 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI DIETARY CONSTITUENTS ALTERING THE RESPONSES TO CHEMICAL CARCINOGENS.

L19 ANSWER 14 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI INHIBITION OF HAMSTER CELL TRANSFORMATION AND OF BENZ A PYRENE HYDROXYLATION BY ANTI OXIDANTS.

L19 ANSWER 15 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI POTENTIAL INHIBITORS OF COLON CARCINOGENESIS.

L19 ANSWER 16 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI MODIFICATION OF THE ACUTE TOXICITY OF MUTAGENIC AND CARCINOGENIC CHEMICALS IN THE MOUSE BY PRE FEEDING WITH ANTI OXIDANTS.

L19 ANSWER 17 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI HEPATIC AND EXTRAHEPATIC INDUCTION OF SELECTED MICROSOMAL ENZYMES BY 3 ANTI OXIDANTS.

L19 ANSWER 18 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI INHIBITION OF CARCINOGENIC AND TOXIC EFFECTS OF POLY CYCLIC HYDRO CARBONS BY PHENOLIC ANTI OXIDANTS AND ETHOXYQUIN.

L19 ANSWER 19 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI EFFECTS OF LIPID PER OXIDATION INHIBITORS BUTYLATED HYDROXY ANISOLE BUTYLATED HYDROXY TOLUENE ON THE MEMBRANE OF RAT LIVER LYSOSOMES AND MITOCHONDRIA.

=> d ibib 2,6,7,11,13

L19 ANSWER 2 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 1987:149586 BIOSIS
DOCUMENT NUMBER: PREV198783078636; BA83:78636
TITLE: ANTIOXIDANT PROPERTIES OF THE FLAVONOIDS SILYBIN AND DEXTRO 3 CYANIDANOL COMPARISON WITH BUTYLATED HYDROXYANISOLE AND BUTYLATED HYDROXYTOLUENE.
AUTHOR(S): VALENZUELA A [Reprint author]; GUERRA R; VIDELA L A
CORPORATE SOURCE: INST NUTR TECNOLOGIA ALIMENTOS, UNIV CHIOLE, CASILLA 15138, SANTIAGO 11, CHILE
SOURCE: Planta Medica, (1986) No. 6, pp. 438-440.
CODEN: PLMEA. ISSN: 0032-0943.
DOCUMENT TYPE: Article
FILE SEGMENT: BA
LANGUAGE: ENGLISH
ENTRY DATE: Entered STN: 21 Mar 1987
Last Updated on STN: 21 Mar 1987

L19 ANSWER 6 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 1978:112929 BIOSIS

DOCUMENT NUMBER: PREV197815056429; BR15:56429
TITLE: INHIBITORS OF CHEMICAL CARCINOGENESIS.
AUTHOR(S): WATTENBERG L W; LAM L K T; SPEIER J L; LOUB W D; BORCHERT P
(1977) pp. 785-799. HIATT, H. H., J. D. WATSON
AND J. A. WINSTEN (ED.). COLD SPRING HARBOR CONFERENCES ON
CELL PROLIFERATION, VOL. 4. ORIGINS OF HUMAN CANCER. BOOK
A. INCIDENCE OF CANCER IN HUMANS. COLD SPRING HARBOR, N.Y.,
USA, SEPT., 1976. XXVI+602P. (BOOK A); XIV+699P. (BOOK B);
XIV+583P. (BOOK C). ILLUS. MAPS. COLD SPRING HARBOR
LABORATORY: COLD SPRING HARBOR, N.Y., ISBN 0-87969-119-0.
DOCUMENT TYPE: Book
FILE SEGMENT: BR
LANGUAGE: Unavailable

L19 ANSWER 7 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 1978:75714 BIOSIS
DOCUMENT NUMBER: PREV197815019214; BR15:19214
TITLE: INHIBITION OF CHEMICAL CARCINOGENESIS BY ANTI OXIDANTS AND
SOME ADDITIONAL COMPOUNDS.
AUTHOR(S): WATTENBERG L W
(1976) pp. 153-166. MAGEE, PETER N. ET AL. (ED.).
PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM OF THE PRINCESS
TAKAMATSU CANCER RESEARCH FUND, VOL. 6. FUNDAMENTALS IN
CANCER PREVENTION. TOKYO, JAPAN, 1975. XVII+433P. ILLUS.
UNIVERSITY PARK PRESS: BALTIMORE, MD., USA; LONDON,
ENGLAND; UNIVERSITY OF TOKYO PRESS: TOKYO, JAPAN. ISBN
0-8391-0965-2.
DOCUMENT TYPE: Book
FILE SEGMENT: BR
LANGUAGE: Unavailable

L19 ANSWER 11 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 1977:211554 BIOSIS
DOCUMENT NUMBER: PREV197764033918; BA64:33918
TITLE: THE EFFECTS OF ANTI OXIDANTS ON SKIN TUMOR INITIATION AND
ARYL HYDRO CARBON HYDROXYLASE.
AUTHOR(S): SLAGA T J; BRACKEN W M
SOURCE: Cancer Research, (1977) Vol. 37, No. 6, pp.
1631-1635.
CODEN: CNREA8. ISSN: 0008-5472.
DOCUMENT TYPE: Article
FILE SEGMENT: BA
LANGUAGE: Unavailable

L19 ANSWER 13 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 1977:3299 BIOSIS
DOCUMENT NUMBER: PREV197713003299; BR13:3299
TITLE: DIETARY CONSTITUENTS ALTERING THE RESPONSES TO CHEMICAL
CARCINOGENS.
AUTHOR(S): WATTENBERG L W; LOUB W D; LAM L K; SPEIER J L
SOURCE: Federation Proceedings, (1976) Vol. 35, No. 6,
pp. 1327-1331.
CODEN: FEPRA7. ISSN: 0014-9446.
DOCUMENT TYPE: Article
FILE SEGMENT: BR
LANGUAGE: Unavailable

=> FIL STNGUIDE
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 63.90 | 168.14 |

FILE 'STNGUIDE' ENTERED AT 17:52:15 ON 17 APR 2006
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 14, 2006 (20060414/UP).

=> d abst 2,6,7,11,13
YOU HAVE REQUESTED DATA FROM FILE 'BIOSIS' - CONTINUE? (Y)/N:y

'ABST' IS NOT A VALID FORMAT FOR FILE 'BIOSIS'

The following are valid formats:

The default display format is BIB.

ABS ----- AB
ALL ----- AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED, AB,
NCL, CC, IT (CT, ST), GT, ORGN, RN, CN, GEN
BIB ----- AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED
CBIB ----- AN, compressed bibliographic information
DALL ----- ALL, delimited for post-processing
IABS ----- ABS, with text label
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IIND ----- IND, indented with text labels
IND ----- NCL, CC, IT (CT, ST), GT, ORGN, RN, CN, GEN
HIT ----- all fields containing hit search terms
HITIND ----- IND
KWIC ----- Hit terms plus 20 words on either side
OCC ----- number of occurrences of hit terms and fields
in which they occur

Hit terms will be highlighted in all available fields except MY and PY.

To display a particular field or fields, enter the display field codes. For a list of display field codes, enter 'HELP DFIELDS' at an arrow prompt (>). Examples of formats include: 'BIB'; 'AB'; 'SO'. You may specify the format fields in any order, and the information will be displayed in the same order as the format specification.

The same formats (except for HIT, HITIND, KWIC, and OCC) may be used with the DISPLAY ACC command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):abs

L19 ANSWER 2 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AB The antioxidant action of the flavonoids silybin and (+)-cyanidanol-3 was assessed in a peroxidating system formed by linoleate and Fe²⁺. A drastic inhibition of Fe²⁺-induced linoleate peroxidation was achieved by silybin and (+)-cyanidanol-3, an effect that was comparable to that elicited by butylated hydroxytoluene or butylated hydroxyanisole. The antioxidant properties of both flavonoids may explain some of their experimental and therapeutical effects as cytoprotective drugs.

L19 ANSWER 6 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

L19 ANSWER 7 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

L19 ANSWER 11 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

AB Butylated hydroxytoluene, butylated hydroxyanisole and vitamins C and E are effective inhibitors of 7,12-dimethylbenz(a)anthracene tumor initiation in a 2 stage system of tumorigenesis. These antioxidants did not significantly induce epidermal aryl hydrocarbon [benzo(a)pyrene]hydroxylase, nor did they have any effect when added directly to the in vitro aryl hydrocarbon [benzo(a)pyrene]hydroxylase assay. Butylated hydroxytoluene and butylated hydroxyanisole, when applied topically to mice, inhibited the in vitro, epidermally mediated, covalent binding of radioactive benzo(a)pyrene and 7,12-dimethylbenz(a)anthracene to DNA. When butylated hydroxytoluene and butylated hydroxyanisole were added in vitro, they did not inhibit the epidermally mediated covalent binding of the hydrocarbons to DNA. The inhibition of polycyclic hydrocarbon tumorigenesis by antioxidants may be related to the ability of antioxidants to prevent in vivo activation of hydrocarbons to carcinogenic epoxides and/or other electrophilic intermediates or may be related to their ability to increase detoxification of the reactive intermediate that requires intact cells to be operational. The results suggest that the antioxidants have an indirect effect on the epidermal metabolizing system which leads to a decrease in covalent binding to DNA.

L19 ANSWER 13 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

| => file medline
COST IN U.S. DOLLARS | SINCE FILE
ENTRY | TOTAL
SESSION |
|-----------------------------------------|---------------------|------------------|
| FULL ESTIMATED COST | 0.12 | 174.01 |

FILE 'MEDLINE' ENTERED AT 17:58:31 ON 17 APR 2006

FILE LAST UPDATED: 15 APR 2006 (20060415/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 is now (26 Feb.) available. For details on the 2006 reload, enter HELP RLOAD at an arrow prompt (=>).
See also:

<http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 112
1718 L6
908 L5
L20 254 L6 AND L5

=> s 120 and 118
1718 L6
908 L5
13409299 PD<2002
(PD<20020000)
L21 236 L20 AND L18

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=> s l20 and l14
      3854 L14
L22      0 L20 AND L14

=> s l20 pd<2002
MISSING OPERATOR L20 PD<2002
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l20 and pd,2002
      1927197 PD
      42800 2002
      0 PD,2002
      (PD(W)2002)
L23      0 L20 AND PD,2002

=> s l20 and pd<2002
      13409299 PD<2002
      (PD<20020000)
L24      236 L20 AND PD<2002

=> d ti 1-10

L24 ANSWER 1 OF 236      MEDLINE on STN
TI In vitro antioxidant properties of dantrolene sodium.

L24 ANSWER 2 OF 236      MEDLINE on STN
TI Estimates of the theoretical maximum daily intake of phenolic antioxidants
BHA, BHT and TBHQ in Brazil.

L24 ANSWER 3 OF 236      MEDLINE on STN
TI Effects of the butylated hydroxyanisole and butylated hydroxytoluene on
the DNA adduct formation and arylamines N-acetyltransferase activity in
human colon tumor cells.

L24 ANSWER 4 OF 236      MEDLINE on STN
TI Determination of antioxidants BHT,BHA and PG in food with high performance
liquid chromatography.

L24 ANSWER 5 OF 236      MEDLINE on STN
TI Antioxidants differentially regulate activation of nuclear factor-kappa B,
activator protein-1, c-jun amino-terminal kinases, and apoptosis induced
by tumor necrosis factor: evidence that JNK and NF-kappa B activation are
not linked to apoptosis.

L24 ANSWER 6 OF 236      MEDLINE on STN
TI Estimates of the theoretical maximum daily intake of erythorbic acid,
gallates, butylated hydroxyanisole (BHA) and butylated hydroxytoluene
(BHT) in Italy: a stepwise approach.

L24 ANSWER 7 OF 236      MEDLINE on STN
TI Effects of butylated hydroxyanisole and butylated hydroxytoluene on DNA
adduct formation and arylamines N-acetyltransferase activity in PC-3 cells
(human prostate tumor) in vitro.

L24 ANSWER 8 OF 236      MEDLINE on STN
TI Intake of butylated hydroxyanisole and butylated hydroxytoluene and
stomach cancer risk: results from analyses in the Netherlands Cohort
Study.

L24 ANSWER 9 OF 236      MEDLINE on STN
TI Modulation of the phosphatase activity of calcineurin by oxidants and
antioxidants in vitro.

L24 ANSWER 10 OF 236      MEDLINE on STN
```

TI Effects of the butylated hydroxyanisole (BHA) and butylated hydroxytoluene (BHT) on the arylamines N-acetyltransferase activity in rat white blood cells.

=> d ibib 8

L24 ANSWER 8 OF 236 MEDLINE on STN
ACCESSION NUMBER: 2000404125 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10942321
TITLE: Intake of butylated hydroxyanisole and butylated hydroxytoluene and stomach cancer risk: results from analyses in the Netherlands Cohort Study.
AUTHOR: Botterweck A A; Verhagen H; Goldbohm R A; Kleinjans J; van den Brandt P A
CORPORATE SOURCE: Department of Epidemiology, Maastricht University, The Netherlands.. AAM.Botterweck@Epid.unimaas.NL
SOURCE: Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association, (2000 Jul) Vol. 38, No. 7, pp. 599-605.
Journal code: 8207483. ISSN: 0278-6915.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200008
ENTRY DATE: Entered STN: 20000901
Last Updated on STN: 20000901
Entered Medline: 20000824

=> FIL STNGUIDE

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 28.75 | 202.76 |

FILE 'STNGUIDE' ENTERED AT 18:03:31 ON 17 APR 2006
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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Apr 14, 2006 (20060414/UP).

=> d abs 8

YOU HAVE REQUESTED DATA FROM FILE 'MEDLINE' - CONTINUE? (Y)/N:y

L24 ANSWER 8 OF 236 MEDLINE on STN

AB Both carcinogenic and anticarcinogenic properties have been reported for the synthetic antioxidants butylated hydroxyanisole (BHA) and butylated hydroxytoluene (BHT). The association between dietary intake of BHA and BHT and stomach cancer risk was investigated in the Netherlands Cohort Study (NLCS) that started in 1986 among 120,852 men and women aged 55 to 69 years. A semi-quantitative food frequency questionnaire was used to assess food consumption. Information on BHA or BHT content of cooking fats, oils, mayonnaise and other creamy salad dressings and dried soups was obtained by chemical analysis, a Dutch database of food additives (ALBA) and the Dutch Compendium of Foods and Diet Products. After 6.3 years of follow-up, complete data on BHA and BHT intake of 192 incident stomach cancer cases and 2035 subcohort members were available for case-cohort analysis. Mean intake of BHA or BHT among subcohort members was 105 and 351 microg/day, respectively. For consumption of mayonnaise

and other creamy salad dressings with BHA or BHT no association with stomach cancer risk was observed. A statistically non-significant decrease in stomach cancer risk was observed with increasing BHA and BHT intake [rate ratio (RR) highest/lowest intake of BHA = 0.57 (95% confidence interval (CI): 0.25-1.30] and BHT = 0.74 (95% CI: 0.38-1.43). In this study, no significant association with stomach cancer risk was found for usual intake of low levels of BHA and BHT.

=> d ti 11-20

YOU HAVE REQUESTED DATA FROM FILE 'MEDLINE' - CONTINUE? (Y)/N:y

- L24 ANSWER 11 OF 236 MEDLINE on STN
TI Examination of selected food additives and organochlorine food contaminants for androgenic activity in vitro.
- L24 ANSWER 12 OF 236 MEDLINE on STN
TI Effect of inducers of DT-diaphorase on the toxicity of 2-methyl- and 2-hydroxy-1,4-naphthoquinone to rats.
- L24 ANSWER 13 OF 236 MEDLINE on STN
TI The significance of excursions above the ADI: duration in relation to pivotal studies.
- L24 ANSWER 14 OF 236 MEDLINE on STN
TI Effects of butylated hydroxyanisole (BHA) and butylated hydroxytoluene (BHT) on the acetylation of 2-aminofluorene and DNA-2-aminofluorene adducts in the rat.
- L24 ANSWER 15 OF 236 MEDLINE on STN
TI Safety assessment of butylated hydroxyanisole and butylated hydroxytoluene as antioxidant food additives.
- L24 ANSWER 16 OF 236 MEDLINE on STN
TI Phenolics: blocking agents for heterocyclic amine-induced carcinogenesis.
- L24 ANSWER 17 OF 236 MEDLINE on STN
TI Antioxidative activity of 1-methyl-1,2,3,4-tetrahydro-beta-carboline-3-carboxylic acid.
- L24 ANSWER 18 OF 236 MEDLINE on STN
TI Evidence that ferric nitrilotriacetate mediates oxidative stress by down-regulating DT-diaphorase activity: implications for carcinogenesis.
- L24 ANSWER 19 OF 236 MEDLINE on STN
TI Quantitative determination of butylated hydroxyanisole, butylated hydroxytoluene, and tert-butyl hydroquinone in oils, foods, and biological fluids by high-performance liquid chromatography with fluorometric detection.
- L24 ANSWER 20 OF 236 MEDLINE on STN
TI Contact allergy to the monomers of p-tert-butylphenol-formaldehyde resin in the guinea pig.

=> s 124 and drug?

'2002' NOT A VALID FIELD CODE

'CN' IS NOT A VALID FIELD CODE

0 "BUTYLATED HYDROXYTOLUENE"/CN

0 "BUTYLATED HYDROXYANISOLE"/CN

0 PD<2002

42 DRUG?

L25 0 L24 AND DRUG?

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=> s l20 and drug?  
'CN' IS NOT A VALID FIELD CODE  
    0 "BUTYLATED HYDROXYTOLUENE"/CN  
    0 "BUTYLATED HYDROXYANISOLE"/CN  
    42 DRUG?  
L26      0 L20 AND DRUG?
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=> s l24 and tumor  
'2002' NOT A VALID FIELD CODE  
'CN' IS NOT A VALID FIELD CODE  
    0 "BUTYLATED HYDROXYTOLUENE"/CN  
    0 "BUTYLATED HYDROXYANISOLE"/CN  
    0 PD<2002  
    0 TUMOR  
L27      0 L24 AND TUMOR
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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.48 | 204.19 |

FILE 'TOXCENTER' ENTERED AT 18:08:46 ON 17 APR 2006
COPYRIGHT (C) 2006 ACS

FILE COVERS 1907 TO 11 Apr 2006 (20060411/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

The MEDLINE file segment has been updated with 2006 MEDLINE data and features. See HELP RLOAD for details.

TOXCENTER thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

See <http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html
for a description of changes.

```
=> s l12  
        4930 L6  
        3284 L5  
L28      1211 L6 AND L5
```

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=> s l28 and L14  
        3625 L14  
L29      5 L28 AND L14
```

=> d abs 1-5

```
L29 ANSWER 1 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN  
AN 2005:328842 TOXCENTER  
CP Copyright 2006 ACS  
AB The invention relates to a method for preventing, treating, or ameliorating arterial restenosis after angioplasty in an animal by administering to the animal active vitamin D compds. The invention further relates to a method for preventing, treating, or ameliorating restenosis after angioplasty in an animal by administering to the animal active vitamin D compds. in combination with other therapeutic agents. A further aspect of the invention is a method for preventing, treating, or ameliorating stenosis within and/or around an arterial bypass graft in an animal comprising administering to the animal an active vitamin D compound
```

L29 ANSWER 2 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN

AN 2005:277924 TOXCENTER

CP Copyright 2006 ACS

AB Disclosed is an interventional device for delivery of therapeutic agents from an angioplasty balloon and from a prosthesis such as an intraluminal stent. The invention also relates to the method of loading the beneficial agents onto the balloon and the device, as well as the method of delivery of the agents from sep. surfaces. The invention also relates to an interventional device having a prosthesis surface that is loaded with a first beneficial agent, and a balloon surface loaded with a second beneficial agent. The invention also relates to a method of loading multiple beneficial agents onto the prosthesis surfaces and the balloon surfaces, and to a method of manufacturing an interventional device for the delivery of a first beneficial agent and a second beneficial agent from sep. surfaces. For example, electropolished 316L stainless steel stents were spray coated with a 20 mg/mL solution of phosphorylcholine polymer PC1036. Multiple PC-coated stents were loaded with drugs from solution. The solns. of the drugs were in the range of 2 to 20 mg/mL of ABT-578 and 10.0 mg/mL dexamethasone in 100% ethanol, with 10% PC1036 added to the solution to enhance film formation. To load approx. 10 µg/mL of each drug, a solution with equal amts. of ABT-578 and dexamethasone was sprayed onto the stent in a controlled fashion. The loaded, dry stents were stored in a refrigerator and protected from light. To evaluate the total amount of drug loaded, the stents were immersed in 6 mL of 50% ethanol, 50% water solution and sonicated for 20 min. The concentration of the drug in the extraction solution was

analyzed by HPLC.

L29 ANSWER 3 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN

AN 2005:129329 TOXCENTER

CP Copyright 2006 ACS

AB This invention defines novel compns. that can be used for clin. treatment of a class of chronic inflammatory diseases. Increased generation of carbonyl substances, aldehydes and ketones, occurs at sites of chronic inflammation and is common to the etiologies of all of the clin. disorders addressed herein. Such carbonyl substances are cytotoxic and addnl. serve to perpetuate and disseminate the inflammatory process. This invention defines use of compns., the orally administered required primary agents of which are primary amine derivs. of benzoic acid capable of reacting with the carbonyl substances. P-Aminobenzoic acid (or PABA) is an example of the required primary agent of the present invention. PABA has a small mol. weight, is water soluble, has a primary amine group which reacts with carbonyl-containing substances and is tolerated by the body in relatively high dosages for extended periods. The method of the present invention includes administration of a composition comprising: (1) an orally consumed primary agent; (2) a previously known medicament co-agent recognized as effective to treat a chronic inflammatory disease addressed herein administered to the mammalian subject via the oral route, other systemic routes of administration or via the topical route; and (3) optionally 1 or more addnl. orally consumed co-agent selected from the group consisting of antioxidants, vitamins, metabolites at risk of depletion, sulfhydryl co-agents, co-agents which may facilitate glutathione activity and nonabsorbable primary amine polymeric co-agents, so as to produce an additive or synergistic physiol. effect of an anti-inflammatory nature.

L29 ANSWER 4 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN

AN 2005:52573 TOXCENTER

CP Copyright 2006 ACS

AB An medical device which comprises (a) a medical device substrate and (b) a therapeutic-agent-containing region over the substrate that comprises a therapeutic agent and an antioxidant. Exemplary medical devices are implantable or insertable medical devices, such as catheters, guide wires, balloons, filters, stents, stent grafts, vascular grafts, vascular patches and shunts. Also described are methods of making devices such as those above, which methods comprise: (a) providing a solution comprising (i)

solvent, (ii) the therapeutic agent, and (iii) the antioxidant; (b) providing the medical device substrate; (c) contacting the solution with the medical device substrate; and (d) removing the solvent from the solution to form the therapeutic-agent-containing region. A stent was sprayed with a solution containing polystyrene-polyisobutylene block copolymer, trans-retinoic acid (I), and BHT and then dried. The amount of I present in the stent after 40 days was significantly more than when there was no BHT in the solution

L29 ANSWER 5 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN

AN 2004:214194 TOXCENTER

CP Copyright 2006 ACS

AB A medical device having a hydration inhibitor for controlled delivery of an active agent and methods of manufacturing of the same are disclosed. The medical device includes an interventional component loaded with the active agent having a first LogP value, the active agent being associated with a hydration inhibitor to control the elution rate of the active agent, the hydration inhibitor having a second LogP value which is greater than the first LogP value. Thus, ABT-578 acts a hydration inhibitor for the more hydrophilic dexamethasone, and this inhibition has the effect of stabilizing the more hydrophilic drug dexamethasone in the presence of the less hydrophilic drug ABT-578.

=> d ibib 1-5

L29 ANSWER 1 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:328842 TOXCENTER

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DOCUMENT NUMBER: CA14326472585N

TITLE: Prevention of arterial restenosis with active vitamin D compounds

AUTHOR(S): Whitehouse, Martha J.; Goodwin, Bradford S.

CORPORATE SOURCE: ASSIGNEE: Novacea, Inc.

PATENT INFORMATION: WO 2005110435 A1 24 Nov 2005

SOURCE: (2005) PCT Int. Appl., 48 pp.

CODEN: PIXXD2.

COUNTRY: UNITED STATES

DOCUMENT TYPE: Patent

FILE SEGMENT: CAPLUS

OTHER SOURCE: CAPLUS 2005:1240433

LANGUAGE: English

ENTRY DATE: Entered STN: 20051213

Last Updated on STN: 20060221

L29 ANSWER 2 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:277924 TOXCENTER

COPYRIGHT: Copyright 2006 ACS

DOCUMENT NUMBER: CA14319353446H

TITLE: Multiple drug delivery from a polymer-coated balloon and a prosthesis

AUTHOR(S): Toner, John L.; Burke, Sandra E.; Cromack, Keith R.; Von Oepen, Randolph

CORPORATE SOURCE: ASSIGNEE: Abbott Laboratories

PATENT INFORMATION: WO 2005089855 A1 29 Sep 2005

SOURCE: (2005) PCT Int. Appl., 48 pp.

CODEN: PIXXD2.

COUNTRY: UNITED STATES

DOCUMENT TYPE: Patent

FILE SEGMENT: CAPLUS

OTHER SOURCE: CAPLUS 2005:1042116

LANGUAGE: English

ENTRY DATE: Entered STN: 20051018

Last Updated on STN: 20060411

L29 ANSWER 3 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN
*ACCESSION NUMBER: 2005:129329 TOXCENTER
COPYRIGHT: Copyright 2006 ACS
DOCUMENT NUMBER: CA14223435774G
TITLE: Compositions treatment of chronic inflammatory diseases
AUTHOR(S): Shapiro, Howard K.
PATENT INFORMATION: US 2005090553 A1 28 Apr 2005
SOURCE: (2005) U.S. Pat. Appl. Publ., 44 pp., Cont.-in-part of U.S. Ser. No. 610,073, abandoned.
CODEN: USXXCO.
COUNTRY: UNITED STATES
DOCUMENT TYPE: Patent
FILE SEGMENT: CAPLUS
OTHER SOURCE: CAPLUS 2005:369133
LANGUAGE: English
ENTRY DATE: Entered STN: 20050503
Last Updated on STN: 20060124

L29 ANSWER 4 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:52573 TOXCENTER
COPYRIGHT: Copyright 2006 ACS
DOCUMENT NUMBER: CA14211204890A
TITLE: Medical devices containing antioxidant and therapeutic agent
AUTHOR(S): Song, Young-Ho
PATENT INFORMATION: US 2005037048 A1 17 Feb 2005
SOURCE: (2005) U.S. Pat. Appl. Publ., 8 pp.
CODEN: USXXCO.
COUNTRY: UNITED STATES
DOCUMENT TYPE: Patent
FILE SEGMENT: CAPLUS
OTHER SOURCE: CAPLUS 2005:140568
LANGUAGE: English
ENTRY DATE: Entered STN: 20050301
Last Updated on STN: 20051129

L29 ANSWER 5 OF 5 TOXCENTER COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:214194 TOXCENTER
COPYRIGHT: Copyright 2006 ACS
DOCUMENT NUMBER: CA14115248815P
TITLE: Medical device having a hydration inhibitor
AUTHOR(S): Toner, John L.; Cromack, Keith R.
PATENT INFORMATION: US 2004180039 A1 16 Sep 2004
SOURCE: (2004) U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO.
COUNTRY: UNITED STATES
DOCUMENT TYPE: Patent
FILE SEGMENT: CAPLUS
OTHER SOURCE: CAPLUS 2004:759610
LANGUAGE: English
ENTRY DATE: Entered STN: 20040928
Last Updated on STN: 20060411

| => FIL STNGUIDE | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 12.26 | 216.45 |

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|----------------------|--|------------|---------|
| => file ipa | | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | | ENTRY | SESSION |
| FULL ESTIMATED COST | | 0.30 | 216.75 |

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=> s 112
47 L6
41 L5
L30 15 L6 AND L5

=> s 112 and 114
47 L6
41 L5
318 L14
L31 0 L12 AND L14

=> d ti 1-5
L31 HAS NO ANSWERS
L5 1 SEA FILE=REGISTRY "BUTYLATED HYDROXYANISOLE"/CN
L6 1 SEA FILE=REGISTRY "BUTYLATED HYDROXYTOLUENE"/CN
L12 544 SEA FILE=BIOSIS L6 AND L5
L14 1269 SEA FILE=REGISTRY RAPAMYCIN/BI
L31 0 SEA FILE=IPA L12 AND L14

| | | | |
|----------------------|--|------------|---------|
| => file promt | | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | | ENTRY | SESSION |
| FULL ESTIMATED COST | | 26.84 | 243.59 |

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FILE COVERS 1978 TO 15 APR 2006 (20060415/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 112 and 114
141 L6
108 L5
120 L14
L32 0 L12 AND L14

| | | | |
|----------------------|--|------------|---------|
| => file agricola | | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | | ENTRY | SESSION |
| FULL ESTIMATED COST | | 26.26 | 269.85 |

FILE 'AGRICOLA' ENTERED AT 18:15:19 ON 17 APR 2006

FILE COVERS 1970 TO 7 Apr 2006 (20060407/ED)

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=> s 112 and 114
508 L6
339 L5
109 L14
L33 0 L12 AND L14

=> file promt
COST IN U.S. DOLLARS SINCE FILE TOTAL
SESSION
FULL ESTIMATED COST 25.75 295.60

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FILE COVERS 1978 TO 15 APR 2006 (20060415/ED)

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=> s 112 and 114
141 L6
108 L5
120 L14
L34 0 L12 AND L14

=> file cbnb
COST IN U.S. DOLLARS SINCE FILE TOTAL
SESSION
FULL ESTIMATED COST 26.26 321.86

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FILE COVERS 1984 TO DATE.

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BASIC INDEX (/BI) AND IN THE CHEMICAL NAME (/CN) FIELDS <<<

=> s 112 and 114
48 L6
10 L5
163 L14
L35 0 L12 AND L14

=> file cin
COST IN U.S. DOLLARS SINCE FILE TOTAL
SESSION
FULL ESTIMATED COST 26.58 348.44

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FILE COVERS 1974 - 14 APR 2006 (20060414/ED) VOL 35 ISS 16

=> s l12 and l14
184 L6
69 L5
78 L14
L36 0 L12 AND L14

=> file pira
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.44 | 348.88 |

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FILE COVERS 1975 TO 11 Apr 2006 (20060411/ED)

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=> s l12 and l14
34 L6
17 L5
0 L14
L37 0 L12 AND L14

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 26.22 | 375.10 |

STN INTERNATIONAL LOGOFF AT 18:17:18 ON 17 APR 2006

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